

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2004/000293

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: C07H 15/04, 15/207, A61K 31/7004, 31/7016, A61P 29/00 17/00, 11/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
STN substructure search on compounds of the examples.

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	STN File CA Abstract Accession No. 138:343608 & ZALIPSKY S et. al., "Phospholipase D mediated synthesis of PEG-lipids for liposomal drug delivery" Polymer Preprints (2002), 43 (2), 710 See RN 223592-99-2	1, 31, 34, 38
X	STN File CA Abstract Accession No. 130:311982 & ZALIPSKY S et. al., "New chemoenzymic approach to glyco-lipopolymers: practical preparation of functionally active galactose-poly(ethylene glycol)-distearoylphosphatidic acid (Gal-PEG-DSPA) conjugate" Chemical Communications (Cambridge) (1999), (7), 653-654 See RN 223592-99-2, RN 223593-03-1	1, 31, 34, 38

☒ Further documents are listed in the continuation of Box C


☒ See patent family annex

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
14 January 2005

Date of mailing of the international search report  
17 JAN 2005

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	STN File CA Abstract Accession No. 97:56144 & VAN BOECKEL C. A. A. et al., "Phosphotriester approach to the synthesis of $\alpha$ glucosylated mono and diphosphatidyl glycerols: bacterial cell wall components", Tetrahedron (1981), 37 (21), 3751-61 See RN 73485-67-3, RN 73485-66-2, RN 73508-41-5, RN 81703-32-4	1, 31, 34, 38
X	STN File CA Abstract Accession No. 92:181557 & VAN BOECKEL C. A. A. et al., "Synthesis of glucosyl phosphatidylglycerol via a phosphotriester intermediate", Tetrahedron Letters (1979), (37), 3561-4 See RN 73508-41-5, RN 73485-66-2, RN 73485-67-3	1, 31, 34, 38
X	Derwent Abstract Accession No. 94-347142/43, Class B03, JP 06271597 A (DDS KENKYUSHO KK) 27 September 1994 See whole abstract.	1, 31, 34, 38
X	WO 1994/021656 A2 (GENZYME CORPORATION) 29 September 1994 See claims, page 9 lines 14-27 and in particular Examples 25, 26 and 27.	1, 31, 33, 34, 38

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## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1-30  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  
Claims 1-30 encompass indeterminate number of compounds by virtue of the definitions given in Claim 1. Accordingly, the search is restricted to the compounds of the examples.
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

## Box No. III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

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Information on patent family members

PCT/NZ2004/000293

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member		
JP	06271597	NONE			
WO	1994/021656	CA	2158055	EP	0688329
				US	5354853
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					